Rohith Rajan

📞 +91 8122268165   ✉ rohithrajan287@gmail.com   🔗 www.linkedin.com/in/rohith-rajan-1116a3303

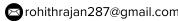## SUMMARY

Software Developer with 3 years of experience in advanced AI/ML integration and Finacle core banking systems. Specialized in building enterprise-grade automation tools and internal AI models for Finacle workflow enhancement. Proven expertise in FSM-based ONNX execution for secure inference, RAG-based Finacle support chatbot development, and LLM-driven automation for form configuration. Strong ability to deploy AI models within private cloud environments under infrastructure constraints.

PROFESSIONAL EXPERIENCE

Software Developer (Python + AI Integrations for Finacle Systems)   JUN 2022 - Present

- Built internal platforms to automate Finacle module generation using Python.
- Developed a prototype FSM-based ONNX runtime to execute AI models on private cloud infrastructure where standard libraries (NumPy, onnxruntime) were restricted or disallowed.
- Parsed ONNX graphs manually and implemented FSM logic to sequentially simulate operations such as MatMul, Add, and ReLU, ensuring safe, dependency-free AI inference inside regulated environments.
- Trained a lightweight model using PyTorch to predict Finacle form field attributes (e.g., field size, type, search flag) based on minimal user input like Account ID.
- Converted the model to ONNX format and integrated it into the internal Finacle automation tool, reducing workload.
- Worked in the development of a Finacle Support Chatbot using Retrieval-Augmented Generation (RAG).
- Indexed thousands of Finacle support documents into a custom vector store.
- Integrated with LLM for domain-specific Q&A on support issues.
- Implemented fallback strategies using prompt engineering for unknown queries.
- Mentored 30+ junior developers and interns on automation workflows and Finacle scripting best practices.
- Recognized for driving innovation under technical constraints and delivering secure AI tooling.

PROJECT HIGHLIGHTS

FSM-Based ONNX Runtime Execution
- Designed and implemented a Python-based FSM interpreter to execute ONNX models securely within constrained infrastructure.
- Enabled internal deployment of AI models without traditional AI runtimes by simulating all operations manually using FSM logic.

Finacle Support Chatbot using RAG
- Built a secure, domain-specific chatbot using RAG to provide instant answers to Finacle-related queries.
- Used FAISS for dense vector retrieval, and integrated LLM for accurate natural language responses.
- Ensured security and control by deploying the system within the private cloud.

EDUCATION

Bachelor Of Engineering - CIVIL at Anna University	2017-2021
Higher Secondary School at SBOA School	2015-2017

KEY ACHIEVEMENTS

- Delivered production-grade FSM model executor under restricted cloud conditions.
- Deployed RAG-based Finacle chatbot across internal teams, improving support query resolution time.
- Awarded for excellence in automation, innovation, and secure AI deployment strategies.
- Consistently identified and bridged AI capabilities within Finacle development workflows.

TECHNICAL SKILLS

- Languages: Python, Oracle SQL, Finacle Script
- Frameworks/Libraries: PyTorch, ONNX, FastAPI, FAISS
- Concepts: FSM-based model execution, ONNX parsing, RAG architecture, LLM prompting, secure AI deployment
- Tools: Git, SVN, VSCode, Postman

SOFT SKILLS

- Strong problem-solving under constraints
- Effective communicator and mentor
- Deep interest in compiler internals and AI deployment
- Fast learner with curiosity for system architecture